

Amendments to the Drawings:

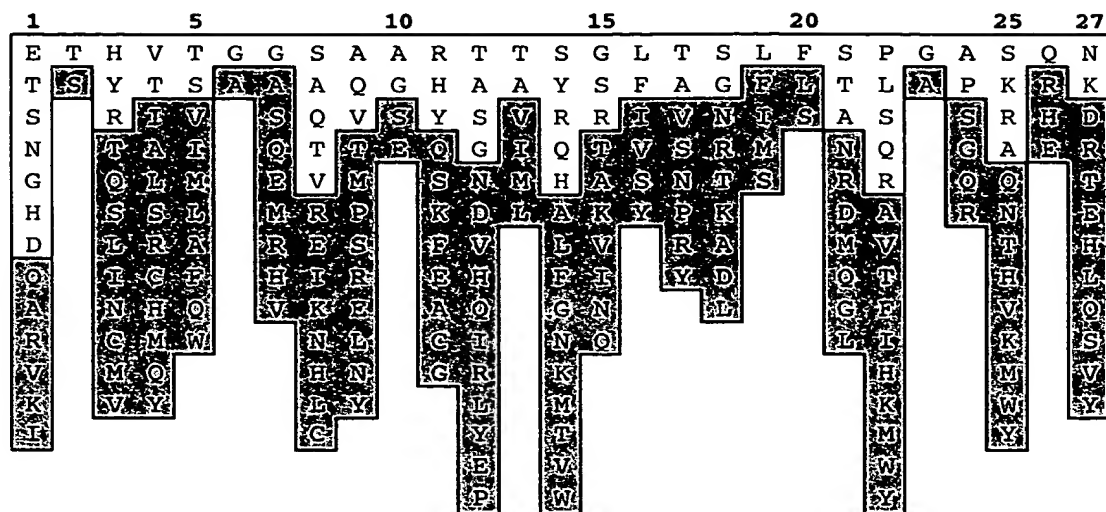
Enclosed are formal drawings.

Attachment: Replacement Sheets



Application No. 09/463,098
 Amdt. Dated Aug. 16, 2004
 Reply to Office Action of May 18, 2004
 Replacement Sheet

A



B

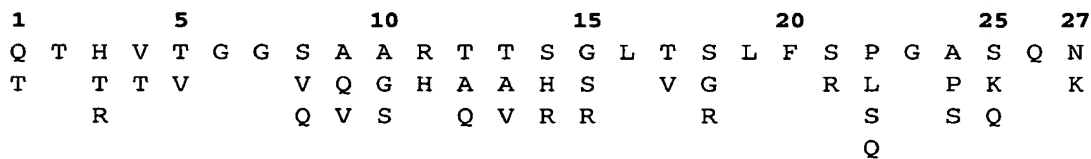


Fig. 1

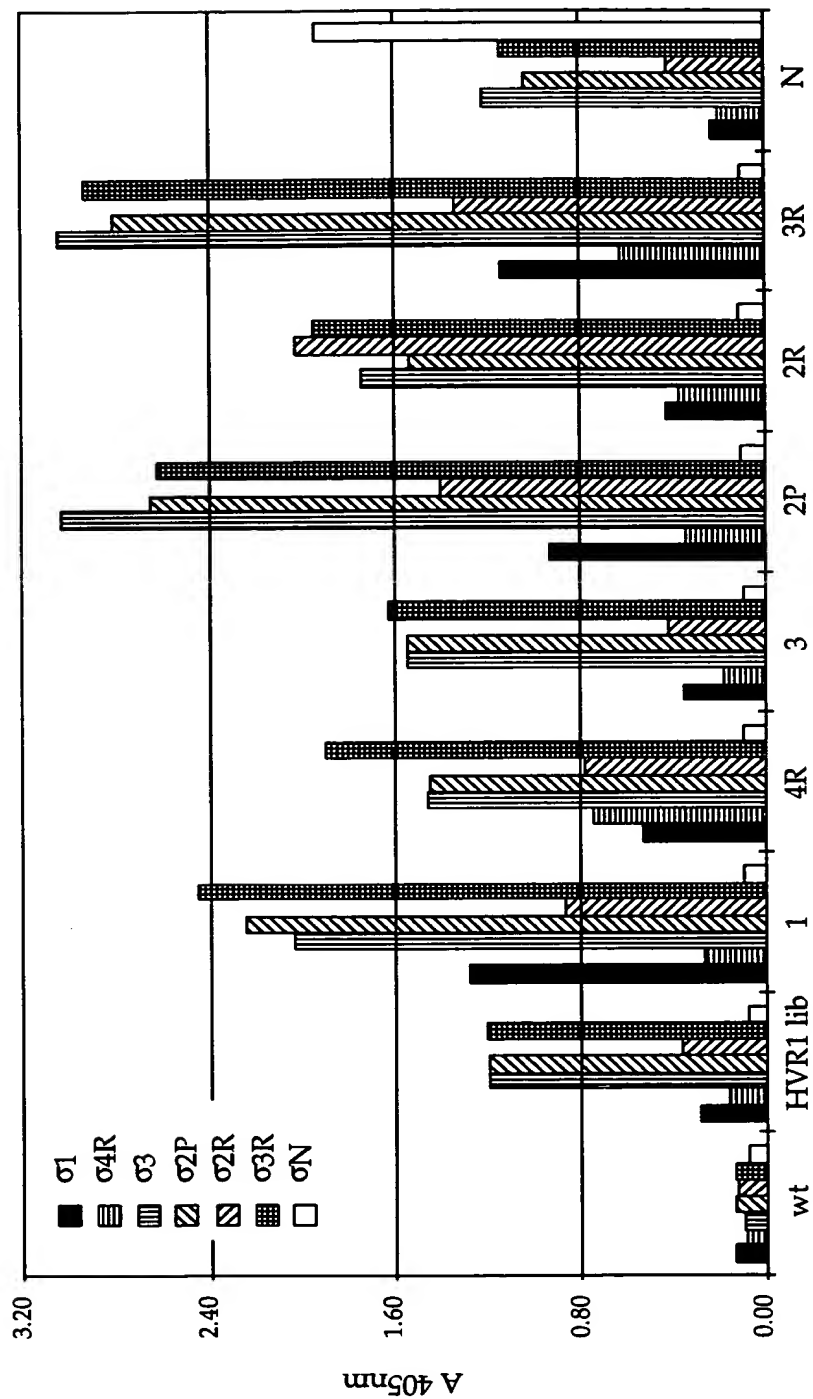


Fig. 2

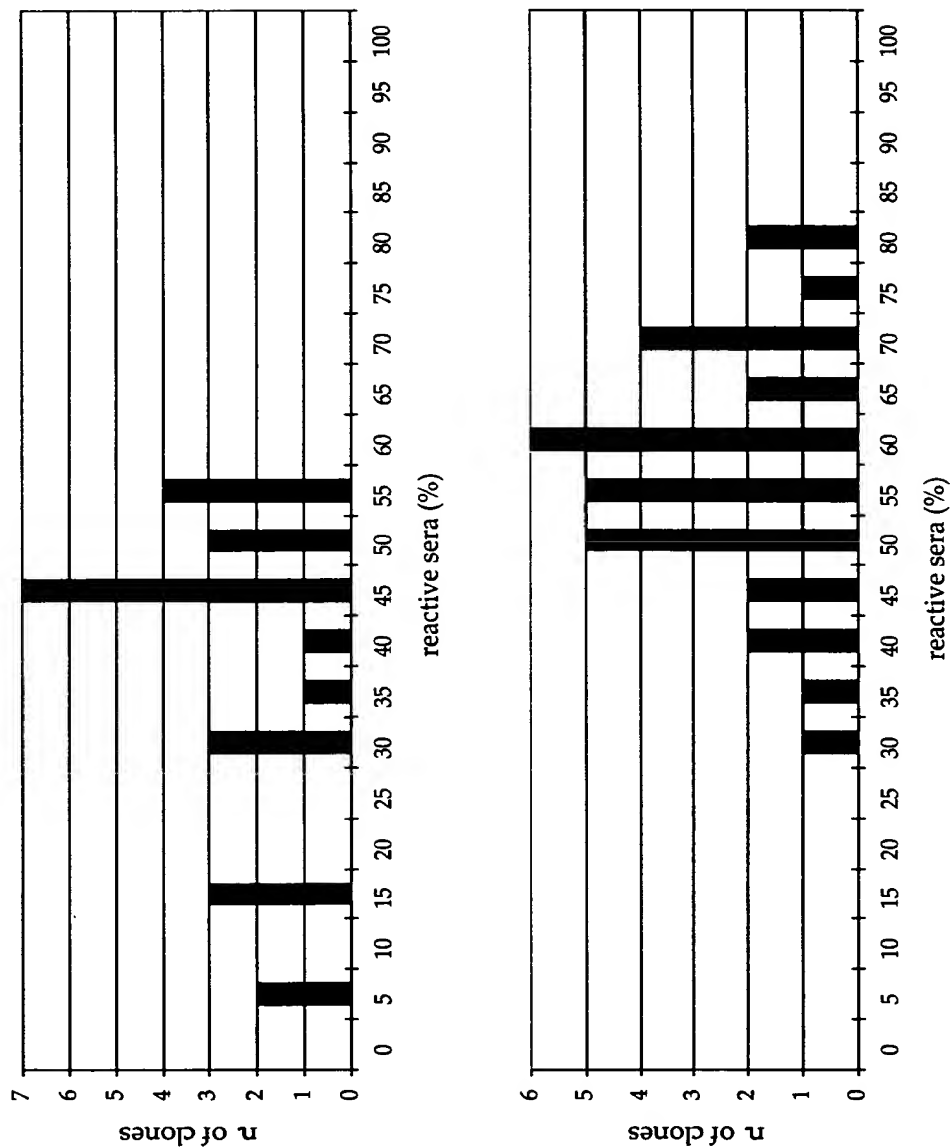


Fig. 3



Application No. 09/463,098
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A

	R9	H1	M63	M122	
C7	0.14	0.13	0.00	0.22	
C8	1.67	1.83	1.05	0.38	
C9	2.30	0.65	0.21	0.11	
C10	1.23	1.30	0.71	0.64	
C12	0.16	1.26	0.20	1.09	
C13	0.90	2.06	0.57	0.19	
C14	0.47	0.63	1.09	2.27	
C17	1.48	1.35	1.00	0.00	
C23	0.00	0.88	2.65	0.00	
C27	0.00	0.00	0.00	3.17	
C28	2.98	0.15	0.00	1.98	
C29	0.00	0.00	2.85	1.17	
C30	0.18	0.00	2.85	1.17	
C40	3.17	1.84	0.20	2.96	
C48	3.07	2.58	0.00	2.56	
C49	0.12	0.00	0.00	0.00	
C50	0.00	0.00	0.12	0.00	
C56	0.33	0.12	0.00	0.00	
C58	2.85	1.42	0.38	0.35	
C62	0.00	0.00	0.13	0.00	
frequency	75%	70%	70%	70%	total: 100%

B

	R9	H1	M63	M122	
1V	0.49	2.51	0.00	0.20	
2V	0.00	0.19	0.11	0.00	
3V	0.65	1.90	1.73	0.62	
4V	0.25	0.00	0.00	0.29	
5V	1.75	2.47	0.31	0.00	
7V	0.60	1.09	1.16	0.88	
8V	0.30	0.88	0.00	0.00	
9V	0.00	0.59	0.00	0.00	
10V	0.58	0.11	1.98	0.00	
1P	0.00	0.00	0.00	0.33	
5P	0.24	0.28	0.44	0.00	
6P	0.47	1.54	0.27	0.31	
7P	0.78	1.33	1.00	0.00	
8P	0.68	0.57	0.14	0.38	
10P	1.20	1.12	0.81	0.88	
11P	0.32	0.44	0.00	0.22	
12P	1.50	1.08	0.84	0.90	
13P	0.49	0.00	0.00	0.31	
frequency	83%	83%	61%	61%	total: 100%

C

	R9	H1	M63	M122	
X1	0.00	0.00	0.00	0.00	
X2	1.37	0.17	0.21	0.68	
X3	0.15	0.56	0.38	0.00	
X4	0.00	0.00	0.00	0.00	
X5	0.00	0.14	0.00	0.00	
X6	0.25	0.00	0.00	0.31	
X7	0.66	0.83	0.60	0.34	
X8	1.04	1.31	0.98	0.45	
X9	0.96	0.21	0.00	0.00	
X10	0.00	0.00	0.00	0.00	
X11	0.74	0.33	0.11	0.91	
X12	0.00	0.00	0.00	0.00	
X13	2.30	0.18	0.54	0.00	
X14	1.20	0.00	0.00	0.00	
X15	2.38	0.00	0.00	1.60	
X16	1.92	2.30	1.86	2.19	
X17	0.00	0.00	0.00	0.00	
X18	0.00	0.00	0.00	0.00	
X19	0.00	0.00	0.00	0.00	
X20	0.47	0.33	0.26	0.00	
X21	0.00	0.86	1.45	1.96	
X22	0.37	0.44	0.44	0.12	
X23	0.61	0.60	0.10	0.00	
X24	0.00	0.00	0.80	0.73	
X25	0.00	0.00	0.00	0.47	
X26	0.00	0.00	0.00	0.00	
X27	0.00	0.00	0.00	0.00	
1NV	0.00	1.50	0.22	0.00	
2NV	0.00	0.40	0.23	0.00	
3NV	0.10	0.11	0.00	0.00	
4NV	0.00	0.00	0.00	0.00	
5NV	0.00	0.00	0.00	0.00	
6NV	0.00	0.00	0.00	0.00	
11NV	0.10	0.00	0.00	0.53	
12NV	0.00	0.00	0.41	0.00	
13NV	0.00	0.00	0.00	0.00	
15NV	0.12	0.00	0.00	0.19	
16NV	0.52	0.84	0.36	0.60	
17NV	0.64	0.52	0.41	1.14	
3P	0.00	0.00	0.00	0.00	
4P	0.00	0.00	0.00	0.00	
frequency	46%	44%	41%	37%	total: 63%

Fig. 4

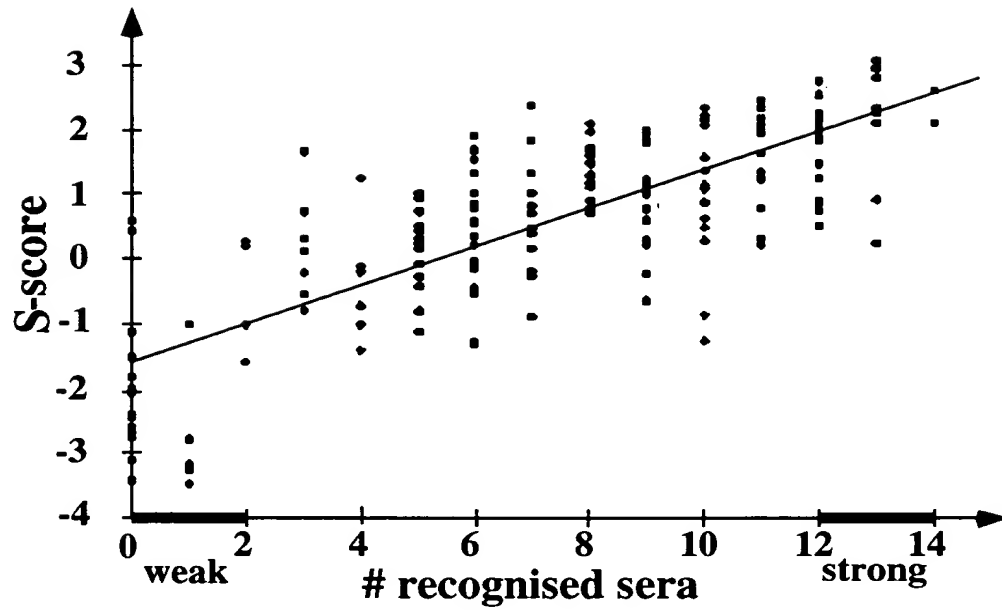


Fig. 5



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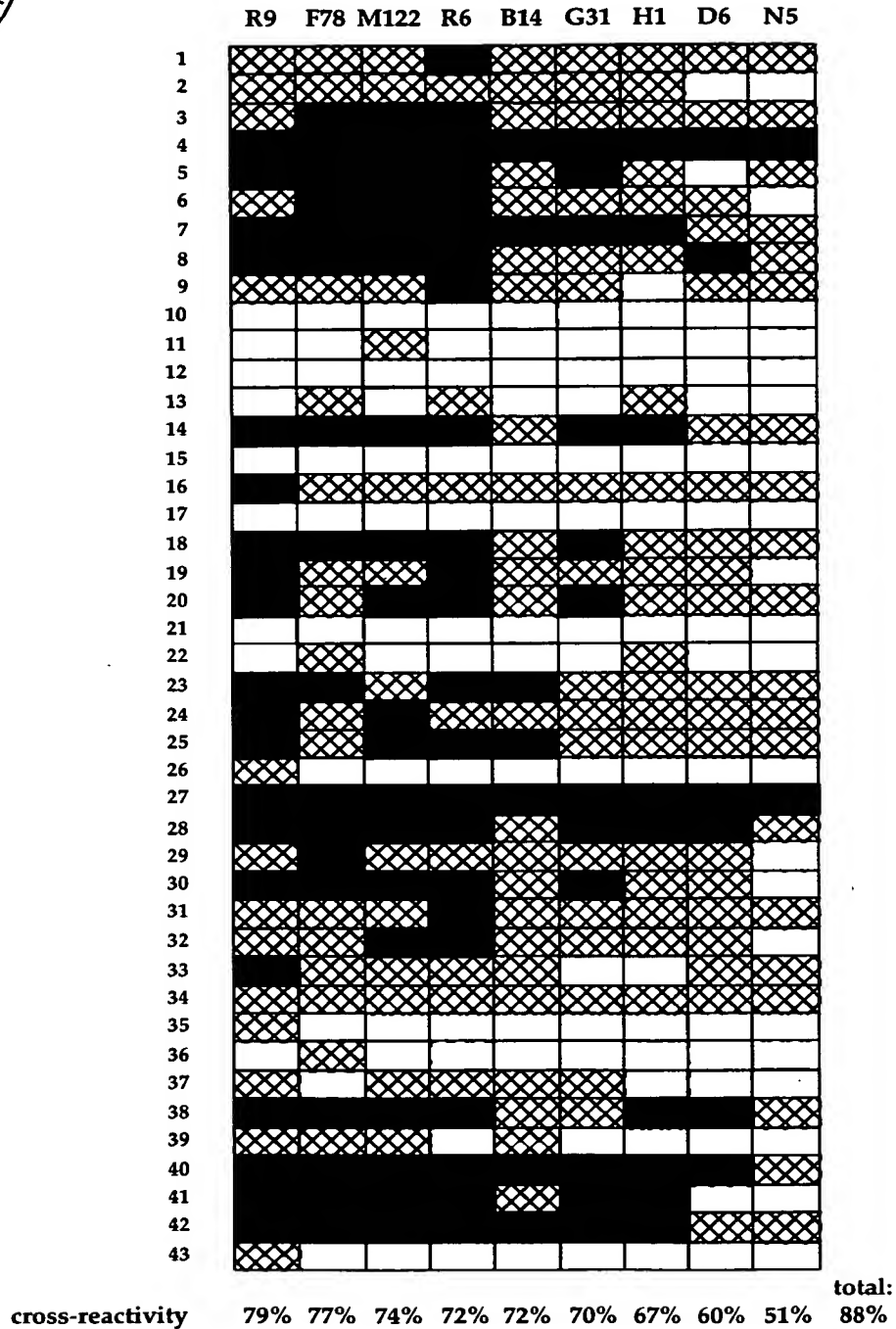


Fig. 6



A

mimotope	sequence
N5	TTTTTGGVQGHTTRGLVRLFSLGSKQN
R6	TTTTTGGQVGHQTSGLTGLFSPGAQQN
D6	QTTTTGGQVSHATHGLTGLFSLGPQQK
R9	QTTTVGGSQSHTVRGLTSLFSPGASQN
H1	QHTTTGGVVGHATSGLTSLFSPGPSQK
G31	TTHTVGGSVARQVHSLTGLFSPGPQQK
M122	QTTTTGGSASHAVSSLTGLFSPGSKQN
B14	QTTVTG-QASHTTSSLTGLFSPGASQK
F78	QHTTTGGQAGHQAHSALTGLFSPGAKQN

B

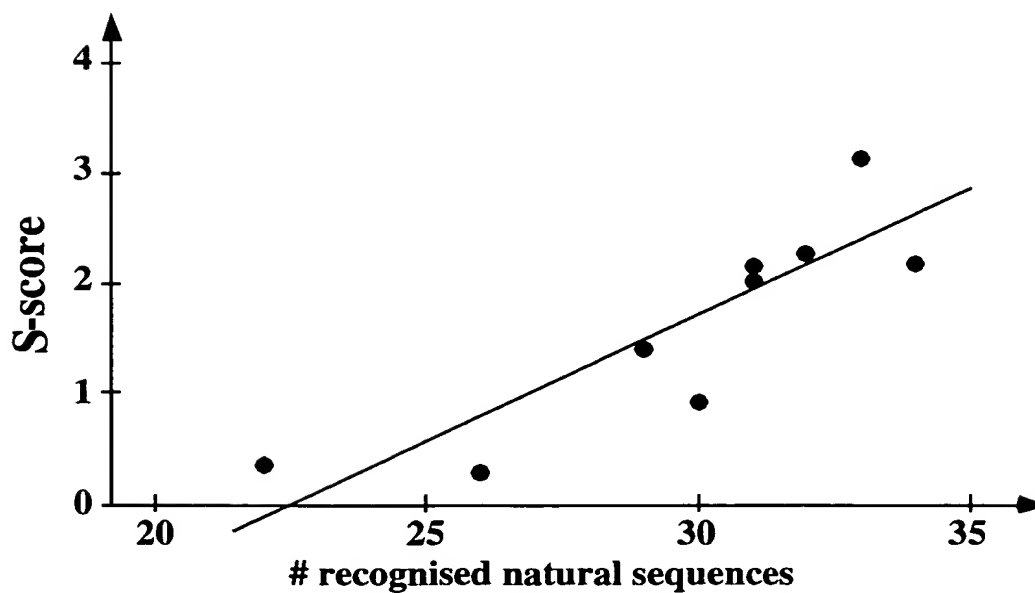


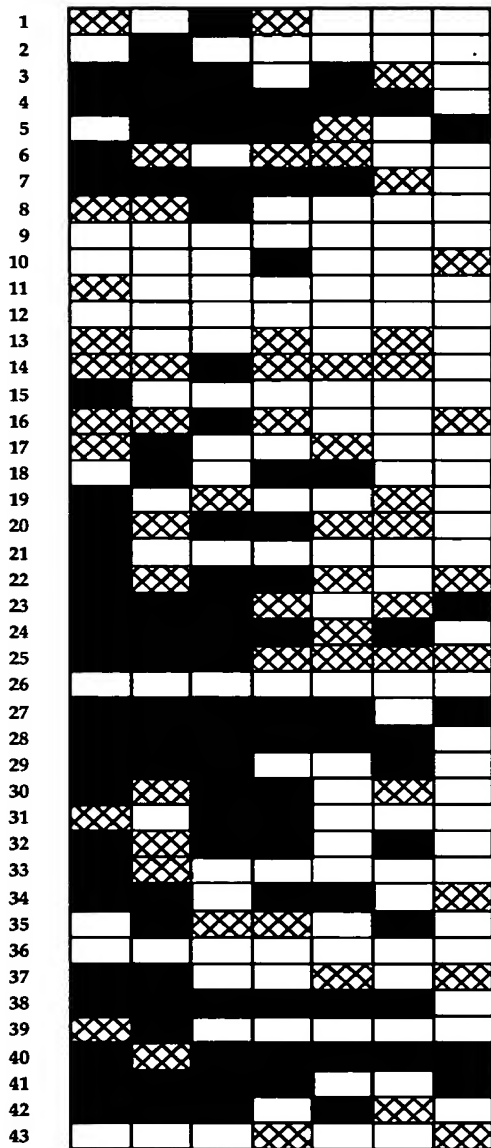
Fig. 7



A

mimotope G31 F78 R9 D6 M122 H1 N5

titre (x100) 330 1000 330 130 10 33 5



cross-reactivity 77% 70% 60% 60% 44% 42% 28% total: 91%

B

MIX3 MIX1 MIX2

45 25 30



95% 84% 84%

Fig. 8



B14 QTTVT . GQASHTTSSLTGLFSPGASQK
B24 TTTTVGGQASHTTSSLTGLFSPGASQK
D6 QTTTTGGQVSHATHGLTGLFSLGPQQK
E19 TTHT . GGQQAHTTSRLVSLFSPGASQK
F78 QTHTTGGQAGHQAHSLTGLFSPGAKQN
G31 TTHTVGGSVARQVHSLTGLFSPGPQQK
H1 QTHTTGGVVGHATSGLTSLFSPGPSQK
M63 QTHTTGGVVSHQTRSLVGLFSPGPQQN
M122 QTTTTGGSASHAVSSLTGLFSPGSKQN
R6 TTTTGGQVGHQTSGLTGLFSPGAQQN
R9 QTTTVGGSQSHTVRGLTSLFSPGASQN

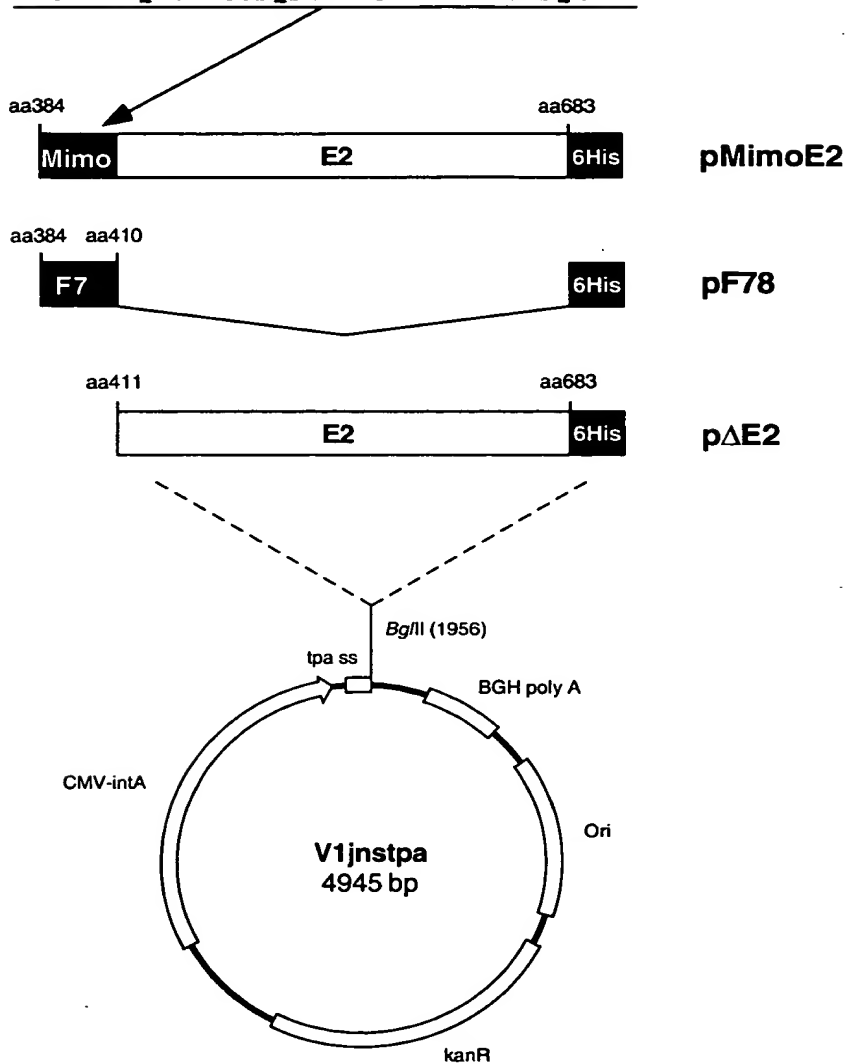


Fig. 9